

ABSTRACT OF THE DISCLOSURE

A torque measuring device for a rotating body comprises: a rotary section composed of first and second flanges to be joined respectively to driving and driven
5 shafts, and a hollow cylinder having the first and second flanges formed respectively on both edges thereof; torque detectors provided at an inner circumference of the cylinder; light emitting elements provided at an outer circumference of the rotary section and adapted to emit
10 light according to an output from the torque detectors thereby generating an optical signal; a light receiving fiber disposed outside the rotary section and adapted to receive the optical signal from the light emitting elements; and a rotary transformer composed of a primary
15 coil constituted by an annulus with two-part separable structure disposed outside the rotary section and a secondary coil provided at the outer circumference of the rotary section, and adapted to supply electrical power to the rotary section.